

REMARKS

The last Office Action has been carefully amended.

Claims 1, 7, 10, and 12 have been amended to fully comply with 35 USC 112, second paragraph requirements. It is respectfully requested that the rejections are withdrawn.

Claim 1 has been amended herein to better differentiate over the cited reference of Marshall.

Applicant respectfully traverses the prior art rejections for the following reasons.

Amended claim 1 of the present application now recites a radiation sensor (10) of an integrated type which is provided with at least one light-sensitive and/or X-ray-sensitive sensor element (11) having an output signal that indicates the amount of radiation absorbed by the sensor element, and with at least one temperature sensor (12, 12a, 12b) having an output signal that indicates the temperature prevailing at the temperature sensor and also with at least one further sensor element (12) sensitive to a physical quantity other than that which the light-sensitive and/or X-ray-sensitive sensor element (11) is sensitive, all sensor elements (11, 12) delivering similar output signals and being connectable to an evaluation unit (13) as similar components wherein said temperature sensor is integrated on said chip of said radiation sensor, said chip having a substantially uniform temperature distribution so that temperature sensed by said temperature sensor directly and substantially fully corresponds to the temperature of the entire radiation sensor chip enabling direct and accurate determination of the temperature at the radiation sensor (emphasis added). Support for this feature can be found on page 2, lines 16-24 of the present specification.

The patent to Marshall et al. relates compensating a radiation sensor for ambient temperature variations. This patent is concerned with ambient temperature variations and compensating a radiation sensor these variations. Marshall discloses sensing a

proportional and not a full or substantially full temperature of the entire radiation sensor chip. Accordingly, it is respectfully submitted that amended claim 1 is not taught or suggested by the patent to Marshall et al, either alone or in combination with the cited references of Shih et al, Nagumo or Gordon

In fact Marshall is concerned with variation of temperature measurements as noted in column 6, lines 51-60. "As shown in FIG. 1A, the temperature controller 84, coupled to the processing circuitry 108 and the radiation sensor array 102, is responsive to a temperature control signal 82. The package 76 may also include a heat sink 78 which can be used in conjunction with the temperature controller 84 to facilitate control and/or stabilization of the temperature of the processing circuitry 108 and/or the radiation sensor array 102." The present invention as claimed in amended claim 1 is concerned with detecting a very accurate and true temperature of the sensor without a time delay- a goal that Marshall does not contemplate or address with its proportional measurement- (see page 5, lines 13-24). "Furthermore, when use is made of a radiation sensor with a temperature sensor, the evaluation unit may be arranged in such a manner that it is capable of making a diagnosis of the operating condition of the radiation sensor on the basis of the measured temperature value." "Similarly, ageing of the chip can be detected by the temperature sensor on the basis of increased temperatures."

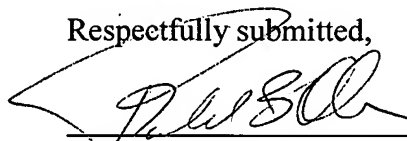
The rest of the claims 2-13 depend on claim 1, directly or indirectly, and are therefore believed to be allowable for the aforementioned reasons.

Accordingly, it is respectfully submitted that none of the references in the last office action, alone or in combination, teach or suggest the claims remaining in the

present application. It is therefore respectfully requested that the prior art rejections be withdrawn.

Allowance of the claims remaining in the present application is earnestly solicited.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read 'R. B. Klar', is written over a horizontal line.

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